

and processes for the commercial marketplace. Evidence of that commitment and interest should be found in the proposal, in the recipient's management plan, or through other means.

(b) The contracting officer must seek cost sharing. The purpose of cost share is to ensure that the recipient incurs real risk that gives it a vested interest in the project's success; the willingness to commit to meaningful cost sharing is a good indicator of a recipient's self-interest. The requirements are that:

(1) To the maximum extent practicable, the non-Federal parties carrying out a RD&D project under a TIA are to provide at least half of the costs of the project; and

(2) The parties must provide the cost sharing from non-Federal resources unless otherwise provided by law.

(c) The contracting officer may consider whether cost sharing is impracticable in a given case, unless there is a statutory requirement for cost sharing that applies to the particular program under which the award is to be made. Before deciding that cost sharing is impracticable, the contracting officer should carefully consider if there are other factors that demonstrate the recipient's self-interest in the success of the current project.

**§ 603.220 Government participation.**

A TIA is used to carry out cooperative relationships between the Federal Government and the recipient(s) which require substantial involvement of the Government in the execution of the RD&D. For example, program officials will participate in recipients' periodic reviews of progress and may be substantially involved with the recipients in the resulting revisions of plans for future effort.

**§ 603.225 Benefits of using a TIA.**

Before deciding that a TIA is appropriate, the contracting officer also must judge that using a TIA could benefit the RD&D objectives in ways that likely would not happen if another type of assistance instrument were used (e.g., a cooperative agreement subject to all of the requirements of 10 CFR part 600). The contracting officer, in conjunction with Government program officials, must consider the ques-

tions in paragraphs (a) through (d) of this section, to help identify the benefits that may justify using a TIA and reducing some of the usual requirements. The contracting officer must report the answers to these questions to help the DOE measure the benefits of using a TIA. Note full concise answers are required only to questions that relate to the benefits perceived for using the TIA, rather than another type of funding instrument, for the particular project. A simple "no" or "not applicable" is a sufficient response for other questions. The questions are:

(a) Will the use of a TIA permit the involvement of any commercial firms or business units of firms that would not otherwise participate in the project? If so:

(1) What are the expected benefits of those firms' or divisions' participation (e.g., is there a specific technology that could be better, more readily available, or less expensive)?

(2) Why would they not participate if an instrument other than a TIA were used? The contracting officer should identify specific provisions of the TIA or features of the TIA award process that enable their participation. For example, if the RD&D effort is based substantially on a for-profit firm's privately developed technology and the Government may be a major user of any commercial product developed as a result of the award, a for-profit firm may not participate unless the Government's intellectual property rights in the technology are modified.

(b) Will the use of a TIA allow the creation of new relationships among participants in a consortium, at the prime or subtier levels, among business units of the same firm, or between non-Federal participants and the Federal Government that will foster better technology? If so:

(1) Why do these new relationships have the potential for fostering technology that is better, more affordable, or more readily available?

(2) Are there provisions of the TIA or features of the TIA award process that enable these relationships to form? If so, the contracting officer should be able to identify specifically what they are. If not, the contracting officer should be able to explain specifically

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why the relationships could not be created if another type of assistance instrument were used. For example, a large business firm may not be willing to participate in a consortium or teaming arrangement with small business firms and nonprofit firms under a standard cooperative agreement because those entities have invention rights under the Bayh-Dole statute that are not available to large businesses. A large business firm may be willing to participate in a consortium or teaming arrangement only if all partners are substantially equal with regard to the allocation of intellectual property rights.

(c) Will the use of a TIA allow firms or business units of firms that traditionally accept Government awards to use new business practices in the execution of the RD&D project that will foster better technology, new technology more quickly or less expensively, or facilitate partnering with commercial firms? If so:

(1) What specific benefits result from the use of these new practices? The contracting officer should be able to explain specifically the potential for those benefits.

(2) Are there provisions of the TIA or features of the TIA award process that enable the use of the new practices? If so, the contracting officer should be able to identify those provisions or features and explain why the practices could not be used if the award were made using another type of assistance instrument.

(d) Are there any other benefits of the use of a TIA that could help DOE meet its objectives in carrying out the project? If so, the contracting officer should be able to identify specifically what they are, how they can help meet the objectives, what features of the TIA or award process enable DOE to realize them, and why the benefits likely would not be realized if an assistance instrument other than a TIA were used.

### § 603.230 Fee or profit.

The contracting officer may not use a TIA if any participant is to receive fee or profit. Note that this policy extends to all performers of the project, including any subawards for sub-

stantive program performance, but it does not preclude participants' or sub-recipients' payment of reasonable fee or profit when making purchases from suppliers of goods (e.g., supplies and equipment) or services needed to carry out the RD&D.

## Subpart C—Requirements for Expenditure-Based and Fixed-Support Technology Investment Agreements

### § 603.300 Difference between an expenditure-based and a fixed-support TIA.

The contracting officer may negotiate expenditure-based or fixed-support award terms for either types of TIA subject to the requirements in this subpart. The fundamental difference between an expenditure-based and a fixed-support TIA is:

(a) For an expenditure-based TIA, the amounts of interim payments or the total amount ultimately paid to the recipient are based on the amounts the recipient expends on project costs. If a recipient completes the project specified at the time of award before it expends all of the agreed-upon Federal funding and recipient cost sharing, the Federal Government may recover its share of the unexpended balance of funds or, by mutual agreement with the recipient, amend the agreement to expand the scope of the RD&D project. An expenditure-based TIA, therefore, is analogous to a cost-type procurement contract or grant.

(b) For a fixed-support TIA, the amount of assistance is established at the time of award and is not meant to be adjusted later. In that sense, a fixed-support TIA is somewhat analogous to a fixed-price procurement contract.

### § 603.305 Use a fixed-support TIA.

The contracting officer may use a fixed-support TIA if:

(a) The agreement is to support or stimulate RD&D with outcomes that are well defined, observable, and verifiable;

(b) The resources required to achieve the outcomes can be estimated well enough to ensure the desired level of cost sharing (see example in § 603.560(b)); and